

## WEST Search History





DATE: Thursday, March 04, 2004

| Hide?                    | <u>Set</u><br><u>Name</u>                                      | <u>Query</u>  | <u>Hit</u><br><u>Count</u> |
|--------------------------|--|---|----------------------------|
|                          | <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i> |   |                            |
| <input type="checkbox"/> | L50  | L49 and (emuls\$9 or mixture or fluid)  | 5                          |
| <input type="checkbox"/> | L49  | L48 and ((weight or weigh\$4 or heavy) with (spectr\$4 or amplitude or value or index\$3 or amount))  | 5                          |
| <input type="checkbox"/> | L48  | L46 and ( (transverse or longitudinal or "spin-lattice" or "spin-spin" or "spin spin" or "spin lattice" or "t2" or "t.sub.2" or "t.sub.1" or "t1" or relax\$8) with (cutoff or cut-off or "cut off" or threshold\$4)) | 8                          |
| <input type="checkbox"/> | L47  | L46 and (emuls\$9)  | 7                          |
| <input type="checkbox"/> | L46  | L45 and (relaxometer or relaxometry)  | 25                         |
| <input type="checkbox"/> | L45  | L44 and (weight or weigh\$4)  | 3325                       |
| <input type="checkbox"/> | L44  | L43 and (low\$4 or high\$3 or standard)   | 3930                       |
| <input type="checkbox"/> | L43  | L42 and (spectr\$4 or amplitude or value or index\$3 or amount)   | 3937                       |
| <input type="checkbox"/> | L42  | L41 and (transverse or longitudinal or "spin-lattice" or "spin-spin" or "spin spin" or "spin lattice" or "t2" or "t.sub.2" or "t.sub.1" or "t1" or relax\$8)  | 3972                       |
| <input type="checkbox"/> | L41  | L40 and (cutoff or cut-off or "cut off" or threshold\$4)  | 11101                      |
| <input type="checkbox"/> | L40  | L39 and (oil or water or hydrogeneous or connate or fluid\$5 or emulsion)   | 118854                     |
| <input type="checkbox"/> | L39  | L1 and (fraction\$4 or portion\$3 or part or partial\$2)  | 136217                     |
| <input type="checkbox"/> | L38  | L1 and (fraction\$4 or portion\$3 or part\$5)   | 135366                     |
|                          | <i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>      |   |                            |
| <input type="checkbox"/> | L37  | 6242912   | 13                         |
| <input type="checkbox"/> | L36  | L35 and (weight\$4 or wait\$4)  | 2                          |
| <input type="checkbox"/> | L35  | L34 and (spectr\$4 or amplitude or value or index\$3)   | 2                          |
| <input type="checkbox"/> | L34  | L33 and (water with oil)  | 2                          |
| <input type="checkbox"/> | L33  | L31 and (heavy or crude or hydrocarbon)   | 2                          |
| <input type="checkbox"/> | L32  | ('6005389') [ABPN1,NRPN,PN,TBAN,WKU]  | 2                          |
| <input type="checkbox"/> | L31  | L30 and (cpmg or (spin adj echo) or spin-echo\$2 or spinecho\$2)  | 2                          |
| <input type="checkbox"/> | L30  | L29 and (transverse or "spin-spin" or "spin spin" or "t2" or "t.sub.2" or relax\$8)   | 2                          |
| <input type="checkbox"/> | L29  | L28 and (cutoff or cut-off or "cut off" or threshold\$4)  | 2                          |
| <input type="checkbox"/> | L28  | L27 and (oil)   | 4                          |
| <input type="checkbox"/> | L27  | L26 and (water)   | 4                          |
| <input type="checkbox"/> | L26  | L24 and (bitumen)   | 5                          |
| <input type="checkbox"/> | L25  | L24 and (bitrium)   | 0                          |

|                          |     |   |        |
|--------------------------|-----|---|--------|
| <input type="checkbox"/> | L24 | ((324/303)!.CCLS.)  | 434    |
| <input type="checkbox"/> | L23 | L21 and (temperature or heat\$4)  | 7      |
| <input type="checkbox"/> | L22 | L21 and (relaxometer or relaxometry)  | 3      |
| <input type="checkbox"/> | L21 | L20 and (water with oil)  | 8      |
| <input type="checkbox"/> | L20 | L19 and (water)   | 11     |
| <input type="checkbox"/> | L19 | L16 and (oil)   | 15     |
| <input type="checkbox"/> | L18 | L17 and (heavy with (oil or water or fluid))  | 2      |
| <input type="checkbox"/> | L17 | L16 and (emuls\$9)  | 8      |
| <input type="checkbox"/> | L16 | L15 and (oil or water or hydrogeneous or connate or fluid\$5)   | 76     |
| <input type="checkbox"/> | L15 | L14 and (low\$4 or high\$4 or standard or averag\$4)  | 77     |
| <input type="checkbox"/> | L14 | L13 and (spectr\$6 or amplitude or value or index\$3)   | 77     |
| <input type="checkbox"/> | L13 | L12 and (cutoff or cut-off or "cut off" or threshold\$4)  | 77     |
| <input type="checkbox"/> | L12 | L11 and (weight\$4 or heavy)  | 214    |
| <input type="checkbox"/> | L11 | L10 and (transverse or "spin-spin" or "spin spin" or "t2" or "t.sub.2" or relax\$8)   | 406    |
| <input type="checkbox"/> | L10 | L1 and ((low with field) with ((magnetic adj resonance) or MRI or NMR))   | 876    |
| <input type="checkbox"/> | L9  | L8 and (low\$4 or high or standard)   | 7      |
| <input type="checkbox"/> | L8  | L7 and (spectr\$4 or amplitude or value or index\$3)  | 7      |
| <input type="checkbox"/> | L7  | L6 and (emuls\$9)   | 7      |
| <input type="checkbox"/> | L6  | L5 and (transverse or longitudinal or "spin-lattice" or "spin-spin" or "spin spin" or "spin lattice" or "t2" or "t.sub.2" or "t.sub.1" or "t1" or relax\$8) | 29     |
| <input type="checkbox"/> | L5  | L4 and (weight\$4 or heavy)   | 29     |
| <input type="checkbox"/> | L4  | L3 and (cutoff or cut-off or "cut off" or threshold\$4)   | 33     |
| <input type="checkbox"/> | L3  | L2 and (oil or water or hydrogeneous or connate or fluid\$5)  | 88     |
| <input type="checkbox"/> | L2  | L1 and (relaxometer or relaxometry)   | 110    |
| <input type="checkbox"/> | L1  | ((magnetic adj resonance) or MRI or NMR)  | 167467 |

END OF SEARCH HISTORY

## Hit List

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[Generate OACS](#)

Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6140817 A

Using default format because multiple data bases are involved.

L36: Entry 1 of 2

File: USPT

Oct 31, 2000

US-PAT-NO: 6140817

DOCUMENT-IDENTIFIER: US 6140817 A

TITLE: Magnetic resonance well logging method and apparatus

DATE-ISSUED: October 31, 2000

INVENTOR-INFORMATION:

| NAME                 | CITY       | STATE | ZIP CODE | COUNTRY |
|----------------------|------------|-------|----------|---------|
| Flaum; Charles       | Ridgefield | CT    |          |         |
| Kleinberg; Robert L. | Ridgefield | CT    |          |         |

US-CL-CURRENT: [324/303](#); [324/300](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | RMIC | Draw Dc |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|

☐ 2. Document ID: US 6005389 A

L36: Entry 2 of 2

File: USPT

Dec 21, 1999

US-PAT-NO: 6005389

DOCUMENT-IDENTIFIER: US 6005389 A

TITLE: Pulse sequences and interpretation techniques for NMR measurements

DATE-ISSUED: December 21, 1999

INVENTOR-INFORMATION:

| NAME                | CITY        | STATE | ZIP CODE | COUNTRY |
|---------------------|-------------|-------|----------|---------|
| Prammer; Manfred G. | Downingtown | PA    |          |         |

US-CL-CURRENT: [324/303](#); [324/300](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | RMIC | Draw Dc |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|

|       |                     |       |          |           |               |
|-------|---------------------|-------|----------|-----------|---------------|
| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |
|-------|---------------------|-------|----------|-----------|---------------|

| Term   | Documents |
|--|-----------|
| WEIGHT\$4  | 0         |
| WEIGHT   | 1879568   |
| WEIGHTA  | 5         |
| WEIGHTABLE   | 55        |
| WEIGHTABLY   | 3         |
| WEIGHTACT  | 1         |
| WEIGHTAGE  | 295       |
| WEIGHTAGES   | 53        |
| WEIGHTAGG  | 1         |
| WEIGHTALL  | 2         |
| WEIGHTALOW   | 2         |
| (L35 AND (WEIGHT\$4 OR<br>WAIT\$4)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD. | 2         |

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[Generate OACS](#)

Search Results - Record(s) 1 through 25 of 25 returned.

☐ 1. Document ID: US 20040028694 A1

Using default format because multiple data bases are involved.

L46: Entry 1 of 25

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040028694

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040028694 A1

TITLE: Novel nanoparticles and use thereof

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

| NAME            | CITY    | STATE | COUNTRY | RULE-47 |
|-----------------|---------|-------|---------|---------|
| Young, Mark J.  | Bozeman | MT    | US      |         |
| Douglas, Trevor | Bozeman | MT    | US      |         |
| Idzerda, Yves   | Bozeman | MT    | US      |         |

US-CL-CURRENT: [424/190.1](#); [424/489](#), [530/400](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|

☐ 2. Document ID: US 20030216320 A1

L46: Entry 2 of 25

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030216320

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030216320 A1

TITLE: Peptide-based multimeric targeted contrast agents

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

| NAME               | CITY       | STATE | COUNTRY | RULE-47 |
|--------------------|------------|-------|---------|---------|
| Koerner, Steffi K. | Somerville | MA    | US      |         |
| Kolodziej, Andrew  | Winchester | MA    | US      |         |
| McMurry, Thomas J. | Winchester | MA    | US      |         |
| Nair, Shrikumar    | Lexington  | MA    | US      |         |

|                           |              |    |    |
|---------------------------|--------------|----|----|
| Nivorozhkin, Alexander L. | West Roxbury | MA | US |
| Sun, Wei-Chuan            | Acton        | MA | US |
| Wang, Xifang              | Belmont      | MA | US |

US-CL-CURRENT: [514/16](#); [514/17](#), [514/18](#), [530/327](#), [530/328](#), [530/329](#)

|      |       |          |       |        |                |      |           |           |             |        |     |          |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|

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☐ 3. Document ID: US 20030215392 A1

L46: Entry 3 of 25

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030215392  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030215392 A1

TITLE: Paramagnetic particles that provide improved relaxivity

PUBLICATION-DATE: November 20, 2003

## INVENTOR-INFORMATION:

| NAME                | CITY      | STATE | COUNTRY | RULE-47 |
|---------------------|-----------|-------|---------|---------|
| Lanza, Gregory M.   | St. Louis | MO    | US      |         |
| Wickline, Samuel A. | St. Louis | MO    | US      |         |

US-CL-CURRENT: [424/9.32](#); [424/9.322](#)

|      |       |          |       |        |                |      |           |           |             |        |     |          |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|

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☐ 4. Document ID: US 20030185760 A1

L46: Entry 4 of 25

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030185760  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030185760 A1

TITLE: Paramagnetic particles that provide improved relaxivity

PUBLICATION-DATE: October 2, 2003

## INVENTOR-INFORMATION:

| NAME                | CITY      | STATE | COUNTRY | RULE-47 |
|---------------------|-----------|-------|---------|---------|
| Lanza, Gregory      | St. Louis | MO    | US      |         |
| Wickline, Samuel A. | St. Louis | MO    | US      |         |

US-CL-CURRENT: [424/9.321](#)

|      |       |          |       |        |                |      |           |           |             |        |     |          |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|

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☐ 5. Document ID: US 20030185757 A1

L46: Entry 5 of 25

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030185757  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030185757 A1

TITLE: Iron-containing nanoparticles with double coating and their use in diagnosis and therapy

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

| NAME               | CITY       | STATE | COUNTRY | RULE-47 |
|--------------------|------------|-------|---------|---------|
| Kresse, Mayk       | Berlin     |       | DE      |         |
| Pfefferer, Detlev  | Berlin     |       | DE      |         |
| Lawaczek, Ruediger | Berlin     |       | DE      |         |
| Wagner, Susanne    | Berlin     |       | DE      |         |
| Ebert, Wolfgang    | Mahlow     |       | DE      |         |
| Elste, Volker      | Berlin     |       | DE      |         |
| Semmler, Wolfhard  | Heidelberg |       | DE      |         |
| Taupitz, Matthias  | Berlin     |       | DE      |         |
| Gaida, Josef       | Berlin     |       | DE      |         |
| Herrmann, Anja     | Berlin     |       | DE      |         |
| Ebert, Monika      | Mahlow     |       | DE      |         |
| Swiderski, Udo     | Berlin     |       | DE      |         |

US-CL-CURRENT: 424/9.32

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Know | Draw |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|------|
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☐ 6. Document ID: US 20030180222 A1

L46: Entry 6 of 25

File: PGPB

Sep 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030180222  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030180222 A1

TITLE: Peptide-based multimeric targeted contrast agents

PUBLICATION-DATE: September 25, 2003

INVENTOR-INFORMATION:

| NAME              | CITY      | STATE | COUNTRY | RULE-47 |
|-------------------|-----------|-------|---------|---------|
| Zhang, Zhaoda     | Andover   | MA    | US      |         |
| Amedio, John C.   | Franklin  | MA    | US      |         |
| Caravan, Peter D. | Cambridge | MA    | US      |         |

|                    |            |    |    |
|--------------------|------------|----|----|
| Dumas, Stephane    | Cambridge  | MA | US |
| Kolodziej, Andrew  | Winchester | MA | US |
| McMurry, Thomas J. | Winchester | MA | US |

US-CL-CURRENT: 424/9.34; 530/400, 534/16

|      |       |          |       |        |                |      |           |           |             |        |     |          |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw. De |
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☐ 7. Document ID: US 20030094946 A1

L46: Entry 7 of 25

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030094946  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030094946 A1

TITLE: Method and system for using conventional core data to calibrate bound water  
volumes derived from NMR logs

PUBLICATION-DATE: May 22, 2003

## INVENTOR-INFORMATION:

| NAME                | CITY          | STATE | COUNTRY | RULE-47 |
|---------------------|---------------|-------|---------|---------|
| Galford, James E.   | Missouri City | TX    | US      |         |
| Marschall, David M. | Sugar Land    | TX    | US      |         |

US-CL-CURRENT: 324/303

|      |       |          |       |        |                |      |           |           |             |        |     |          |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|

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☐ 8. Document ID: US 20030092029 A1

L46: Entry 8 of 25

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030092029  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030092029 A1

TITLE: Magneitc-nanoparticle conjugates and methods of use

PUBLICATION-DATE: May 15, 2003

## INVENTOR-INFORMATION:

| NAME              | CITY        | STATE | COUNTRY | RULE-47 |
|-------------------|-------------|-------|---------|---------|
| Josephson, Lee    | Arlington   | VA    | US      |         |
| Weissleder, Ralph | Charlestown | MA    | US      |         |
| Perez, J. Manuel  | Boston      | MA    | US      |         |

US-CL-CURRENT: 435/6; 435/7.5, 436/526



| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|
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☐ 9. Document ID: US 20030009297 A1

L46: Entry 9 of 25

File: PGPB

Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030009297  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030009297 A1

TITLE: Determination of oil and water compositions of oil/water emulsions using low field NMR Relaxometry

PUBLICATION-DATE: January 9, 2003

INVENTOR-INFORMATION:

| NAME                   | CITY    | STATE | COUNTRY | RULE-47 |
|------------------------|---------|-------|---------|---------|
| Mirotchnik, Konstantin | Calgary |       | CA      |         |
| Allsopp, Kevin         | Calgary |       | CA      |         |
| Kantzas, Apostolos     | Calgary |       | CA      |         |
| Marentette, Daniel     | Calgary |       | CA      |         |

US-CL-CURRENT: 702/25

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|
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☐ 10. Document ID: US 20020141943 A1

L46: Entry 10 of 25

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020141943  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020141943 A1

TITLE: Iron-containing nanoparticles with double coating and their use in diagnosis and therapy

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

| NAME               | CITY       | STATE | COUNTRY | RULE-47 |
|--------------------|------------|-------|---------|---------|
| Kresse, Mayk       | Berlin     |       | DE      |         |
| Pfefferer, Detlev  | Berlin     |       | DE      |         |
| Lawaczek, Ruediger | Berlin     |       | DE      |         |
| Wagner, Susanne    | Berlin     |       | DE      |         |
| Ebert, Wolfgang    | Mahlow     |       | DE      |         |
| Elste, Volker      | Berlin     |       | DE      |         |
| Semmler, Wolfhard  | Heidelberg |       | DE      |         |
| Taupitz, Matthias  | Berlin     |       | DE      |         |

|                |        |    |
|----------------|--------|----|
| Gaida, Josef   | Berlin | DE |
| Herrmann, Anja | Berlin | DE |
| Ebert, Monika  | Mahlow | DE |
| Swiderski, Udo | Berlin | DE |

US-CL-CURRENT: 424/9.32

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw. D |
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☐ 11. Document ID: US 20020140425 A1

L46: Entry 11 of 25

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020140425  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020140425 A1

TITLE: Magnetic resonance fluid analysis apparatus and method

PUBLICATION-DATE: October 3, 2002

## INVENTOR-INFORMATION:

| NAME                | CITY         | STATE | COUNTRY | RULE-47 |
|---------------------|--------------|-------|---------|---------|
| Prammer, Manfred G. | Downington   | PA    | US      |         |
| Bouton, John C.     | Doylestown   | PA    | US      |         |
| Masak, Peter        | West Chester | PA    | US      |         |

US-CL-CURRENT: 324/303; 324/306

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw. D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|---------|
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☐ 12. Document ID: US 20020127629 A1

L46: Entry 12 of 25

File: PGPB

Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020127629  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020127629 A1

TITLE: Imaging of enzymatic activity

PUBLICATION-DATE: September 12, 2002

## INVENTOR-INFORMATION:

| NAME              | CITY        | STATE | COUNTRY | RULE-47 |
|-------------------|-------------|-------|---------|---------|
| Bogdanov, Alexei  | Arlington   | MA    | US      |         |
| Weissleder, Ralph | Charlestown | MA    | US      |         |

US-CL-CURRENT: 435/25; 424/9.34, 534/15, 534/16

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|
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☐ 13. Document ID: US 20020102214 A1

L46: Entry 13 of 25

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020102214  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020102214 A1

TITLE: Paramagnetic material-containing magnetic resonance external marker or  
calibration composition

PUBLICATION-DATE: August 1, 2002

## INVENTOR-INFORMATION:

| NAME                         | CITY  | STATE | COUNTRY | RULE-47 |
|------------------------------|-------|-------|---------|---------|
| Briley-Saebo, Karen Catherin | Oslo  | PA    | NO      |         |
| Kellar, Kenneth Edmund       | Wayne | PA    | US      |         |
| Ladd, David Lee              | Wayne | PA    | US      |         |
| Hollister, Kenneth Robert    | Wayne |       | US      |         |
| Bjornerud, Atle              | Oslo  |       | NO      |         |

US-CL-CURRENT: 424/9.36; 424/9.364

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|

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☐ 14. Document ID: US 6646437 B1

L46: Entry 14 of 25

File: USPT

Nov 11, 2003

US-PAT-NO: 6646437  
DOCUMENT-IDENTIFIER: US 6646437 B1

TITLE: System and method for clay typing using NMR-based porosity modeling

DATE-ISSUED: November 11, 2003

## INVENTOR-INFORMATION:

| NAME                   | CITY         | STATE | ZIP CODE | COUNTRY |
|------------------------|--------------|-------|----------|---------|
| Chitale; Dattatraya V. | Houston      | TX    |          |         |
| Coates; George R.      | Three Rivers | CA    |          |         |
| Day; Peter Ian         | Houston      | TX    |          |         |
| Sigal; Richard F.      | Spring       | TX    |          |         |

US-CL-CURRENT: 324/303; 702/8

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|
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☐ 15. Document ID: US 6576221 B1

L46: Entry 15 of 25

File: USPT

Jun 10, 2003

US-PAT-NO: 6576221

DOCUMENT-IDENTIFIER: US 6576221 B1

TITLE: Iron-containing nanoparticles with double coating and their use in diagnosis and therapy

DATE-ISSUED: June 10, 2003

## INVENTOR-INFORMATION:

| NAME              | CITY      | STATE | ZIP CODE | COUNTRY |
|-------------------|-----------|-------|----------|---------|
| Kresse; Mayk      | Berlin    |       |          | DE      |
| Pfefferer; Detlev | Berlin    |       |          | DE      |
| Lawaczek; Rudiger | Berlin    |       |          | DE      |
| Wagner; Susanne   | Berlin    |       |          | DE      |
| Ebert; Wolfgang   | Berlin    |       |          | DE      |
| Elste; Volker     | Berlin    |       |          | DE      |
| Semmler; Wolfhard | Glienicke |       |          | DE      |
| Taupitz; Matthias | Berlin    |       |          | DE      |
| Gaida; Josef      | Berlin    |       |          | DE      |
| Herrmann; Anja    | Berlin    |       |          | DE      |
| Jukl; Monika      | Berlin    |       |          | DE      |
| Swiderski; Udo    | Berlin    |       |          | DE      |

US-CL-CURRENT: 424/9.322; 424/1.11, 424/646, 424/9.1, 424/9.3, 424/9.32, 514/54,  
514/59, 514/6, 514/60

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | KNOC | Draw. Des |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|
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☐ 16. Document ID: US 6278891 B1

L46: Entry 16 of 25

File: USPT

Aug 21, 2001

US-PAT-NO: 6278891

DOCUMENT-IDENTIFIER: US 6278891 B1

TITLE: Nuclear magnetic resonance method and apparatus for bone analysis and imaging

DATE-ISSUED: August 21, 2001

## INVENTOR-INFORMATION:

| NAME               | CITY    | STATE | ZIP CODE | COUNTRY |
|--------------------|---------|-------|----------|---------|
| Reiderman; Arcady  | Houston | TX    |          |         |
| Taicher; Gersh Zvi | Houston | TX    |          |         |

US-CL-CURRENT: 600/410; 324/309

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | KMC | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|----------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|----------|

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☐ 17. Document ID: US 6107796 A

L46: Entry 17 of 25

File: USPT

Aug 22, 2000

US-PAT-NO: 6107796

DOCUMENT-IDENTIFIER: US 6107796 A

TITLE: Method and apparatus for differentiating oil based mud filtrate from connate oil

DATE-ISSUED: August 22, 2000

## INVENTOR-INFORMATION:

| NAME                | CITY        | STATE | ZIP CODE | COUNTRY |
|---------------------|-------------|-------|----------|---------|
| Prammer; Manfred G. | Downingtown | PA    |          |         |

US-CL-CURRENT: 324/303

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | KMC | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|----------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|----------|

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☐ 18. Document ID: US 6048515 A

L46: Entry 18 of 25

File: USPT

Apr 11, 2000

US-PAT-NO: 6048515

DOCUMENT-IDENTIFIER: US 6048515 A

TITLE: Iron-containing nanoparticles with double coating and their use in diagnosis and therapy

DATE-ISSUED: April 11, 2000

## INVENTOR-INFORMATION:

| NAME              | CITY      | STATE | ZIP CODE | COUNTRY |
|-------------------|-----------|-------|----------|---------|
| Kresse; Mayk      | Berlin    |       |          | DE      |
| Pfefferer; Detlev | Berlin    |       |          | DE      |
| Lawaczek; Rudiger | Berlin    |       |          | DE      |
| Wagner; Susanne   | Berlin    |       |          | DE      |
| Ebert; Wolfgang   | Berlin    |       |          | DE      |
| Elste; Volker     | Berlin    |       |          | DE      |
| Semmler; Wolfhard | Glienicke |       |          | DE      |
| Taupitz; Matthias | Berlin    |       |          | DE      |
| Gaida; Josef      | Berlin    |       |          | DE      |
| Herrmann; Anja    | Berlin    |       |          | DE      |
| Jukl; Monika      | Berlin    |       |          | DE      |
| Swiderski; Udo    | Berlin    |       |          | DE      |

US-CL-CURRENT: 424/9.322; 424/646, 424/648, 424/9.32, 514/54, 514/59, 514/6, 514/60

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | NUMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 19. Document ID: US 5801228 A

L46: Entry 19 of 25

File: USPT

Sep 1, 1998

US-PAT-NO: 5801228

DOCUMENT-IDENTIFIER: US 5801228 A

TITLE: Polymeric contrast agents for medical imaging

DATE-ISSUED: September 1, 1998

INVENTOR-INFORMATION:

| NAME                      | CITY         | STATE | ZIP CODE | COUNTRY |
|---------------------------|--------------|-------|----------|---------|
| Hollister; Kenneth Robert | Wayne        | PA    |          |         |
| Keller; Kenneth Edmund    | Wayne        | PA    |          |         |
| Wei; Dong                 | Wayne        | PA    |          |         |
| Peng; Xin                 | Wayne        | PA    |          |         |
| Ladd; David Lee           | Wayne        | PA    |          |         |
| Henrichs; Paul Mark       | Houston      | TX    |          |         |
| Snow; Robert Allen        | West Chester | PA    |          |         |

US-CL-CURRENT: 534/15; 424/9.36, 424/9.363, 424/9.364, 424/9.365, 534/16, 556/45, 556/49, 556/50

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | NUMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 20. Document ID: US 5707604 A

L46: Entry 20 of 25

File: USPT

Jan 13, 1998

US-PAT-NO: 5707604

DOCUMENT-IDENTIFIER: US 5707604 A

TITLE: Vivo agents comprising metal-ion chelates with acidic saccharides and glycosaminoglycans, giving improved site-selective localization, uptake mechanism, sensitivity and kinetic-spatial profiles

DATE-ISSUED: January 13, 1998

INVENTOR-INFORMATION:

| NAME             | CITY   | STATE | ZIP CODE | COUNTRY |
|------------------|--------|-------|----------|---------|
| Ranney; David F. | Dallas | TX    |          |         |

US-CL-CURRENT: 424/9.35; 424/9.42, 424/9.5, 436/173, 514/54, 514/56, 514/836

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|

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☐ 21. Document ID: US 5623028 A

L46: Entry 21 of 25

File: USPT

Apr 22, 1997

US-PAT-NO: 5623028

DOCUMENT-IDENTIFIER: US 5623028 A

TITLE: Heat cured rubbers

DATE-ISSUED: April 22, 1997

## INVENTOR-INFORMATION:

| NAME                | CITY         | STATE | ZIP CODE | COUNTRY |
|---------------------|--------------|-------|----------|---------|
| Fitzgerald; John J. | Clifton Park | NY    |          |         |
| Osaheni; John A.    | Niskayuna    | NY    |          |         |
| Buddle; Stanlee T.  | Gloversville | NY    |          |         |
| Pero; Donald T.     | Adams        | MA    |          |         |

US-CL-CURRENT: 525/474; 523/212, 524/492, 524/493, 525/477, 525/478

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|

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☐ 22. Document ID: US 5610213 A

L46: Entry 22 of 25

File: USPT

Mar 11, 1997

US-PAT-NO: 5610213

DOCUMENT-IDENTIFIER: US 5610213 A

TITLE: Heat cured rubbers

DATE-ISSUED: March 11, 1997

## INVENTOR-INFORMATION:

| NAME              | CITY         | STATE | ZIP CODE | COUNTRY |
|-------------------|--------------|-------|----------|---------|
| Sumpter; Chris A. | Scotia       | NY    |          |         |
| Ward; Brian J.    | Valley Falls | NY    |          |         |

US-CL-CURRENT: 524/267; 524/493, 524/847, 525/477, 528/24

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|

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☐ 23. Document ID: US 5260050 A

L46: Entry 23 of 25

File: USPT

Nov 9, 1993

US-PAT-NO: 5260050

DOCUMENT-IDENTIFIER: US 5260050 A

TITLE: Methods and compositions for magnetic resonance imaging comprising superparamagnetic ferromagnetically coupled chromium complexes

DATE-ISSUED: November 9, 1993

## INVENTOR-INFORMATION:

| NAME             | CITY   | STATE | ZIP CODE | COUNTRY |
|------------------|--------|-------|----------|---------|
| Ranney; David F. | Dallas | TX    | 75234    |         |

US-CL-CURRENT: 424/9.351; 424/617, 424/9.35, 436/173, 436/806, 536/102, 536/112, 536/122, 556/61, 600/420

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | RMK | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|

☐ 24. Document ID: US 5213788 A

L46: Entry 24 of 25

File: USPT

May 25, 1993

US-PAT-NO: 5213788

DOCUMENT-IDENTIFIER: US 5213788 A

**\*\* See image for Certificate of Correction \*\***TITLE: Physically and chemically stabilized polyatomic clusters for magnetic resonance image and spectral enhancement

DATE-ISSUED: May 25, 1993

## INVENTOR-INFORMATION:

| NAME             | CITY   | STATE | ZIP CODE | COUNTRY |
|------------------|--------|-------|----------|---------|
| Ranney; David F. | Dallas | TX    | 75234    |         |

US-CL-CURRENT: 424/9.322; 424/617, 424/9.35, 436/173, 436/806, 514/56, 514/836, 600/420

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | RMK | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|

☐ 25. Document ID: CA 2342007 A1, US 20030009297 A1

L46: Entry 25 of 25

File: DWPI

Sep 26, 2002

DERWENT-ACC-NO: 2003-329971

DERWENT-WEEK: 200331

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Oil content determination apparatus has low field nuclear magnetic resonance relaxometer having magnet, mechanism for determining total amplitude of spectrum, and mechanism for converting amplitude value to weight value

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | RMK | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|



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| Term  | Documents |
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| RELAXOMETER   | 87        |
| RELAXOMETERS  | 8         |
| RELAXOMETRY   | 70        |
| RELAXOMETRIES   | 0         |
| RELAXOMETRYS  | 0         |
| ((RELAXOMETER OR RELAXOMETRY) AND<br>45).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.  | 25        |
| (L45 AND (RELAXOMETER OR<br>RELAXOMETRY)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 25        |

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☐ 1. Document ID: US 20030215392 A1

Using default format because multiple data bases are involved.

L47: Entry 1 of 7

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030215392  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030215392 A1

TITLE: Paramagnetic particles that provide improved relaxivity

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

| NAME                | CITY      | STATE | COUNTRY | RULE-47 |
|---------------------|-----------|-------|---------|---------|
| Lanza, Gregory M.   | St. Louis | MO    | US      |         |
| Wickline, Samuel A. | St. Louis | MO    | US      |         |

US-CL-CURRENT: 424/9.32; 424/9.322

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 2. Document ID: US 20030185760 A1

L47: Entry 2 of 7

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030185760  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030185760 A1

TITLE: Paramagnetic particles that provide improved relaxivity

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

| NAME                | CITY      | STATE | COUNTRY | RULE-47 |
|---------------------|-----------|-------|---------|---------|
| Lanza, Gregory      | St. Louis | MO    | US      |         |
| Wickline, Samuel A. | St. Louis | MO    | US      |         |

US-CL-CURRENT: 424/9.321

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|
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☐ 3. Document ID: US 20030092029 A1

L47: Entry 3 of 7

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030092029  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030092029 A1

TITLE: Magneitc-nanoparticle conjugates and methods of use

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

| NAME              | CITY        | STATE | COUNTRY | RULE-47 |
|-------------------|-------------|-------|---------|---------|
| Josephson, Lee    | Arlington   | VA    | US      |         |
| Weissleder, Ralph | Charlestown | MA    | US      |         |
| Perez, J. Manuel  | Boston      | MA    | US      |         |

US-CL-CURRENT: 435/6; 435/7.5, 436/526

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|
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☐ 4. Document ID: US 20030009297 A1

L47: Entry 4 of 7

File: PGPB

Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030009297  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030009297 A1

TITLE: Determination of oil and water compositions of oil/water emulsions using low field NMR Relaxometry

PUBLICATION-DATE: January 9, 2003

INVENTOR-INFORMATION:

| NAME                   | CITY    | STATE | COUNTRY | RULE-47 |
|------------------------|---------|-------|---------|---------|
| Mirotchnik, Konstantin | Calgary |       | CA      |         |
| Allsopp, Kevin         | Calgary |       | CA      |         |
| Kantzas, Apostolos     | Calgary |       | CA      |         |
| Marentette, Daniel     | Calgary |       | CA      |         |

US-CL-CURRENT: 702/25

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|

☐ 5. Document ID: US 5260050 A

L47: Entry 5 of 7

File: USPT

Nov 9, 1993

US-PAT-NO: 5260050

DOCUMENT-IDENTIFIER: US 5260050 A

TITLE: Methods and compositions for magnetic resonance imaging comprising superparamagnetic ferromagnetically coupled chromium complexes

DATE-ISSUED: November 9, 1993

## INVENTOR-INFORMATION:

| NAME             | CITY   | STATE | ZIP CODE | COUNTRY |
|------------------|--------|-------|----------|---------|
| Ranney; David F. | Dallas | TX    | 75234    |         |

US-CL-CURRENT: 424/9.351; 424/617, 424/9.35, 436/173, 436/806, 536/102, 536/112, 536/122, 556/61, 600/420

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | KMIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 6. Document ID: US 5213788 A

L47: Entry 6 of 7

File: USPT

May 25, 1993

US-PAT-NO: 5213788

DOCUMENT-IDENTIFIER: US 5213788 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Physically and chemically stabilized polyatomic clusters for magnetic resonance image and spectral enhancement

DATE-ISSUED: May 25, 1993

## INVENTOR-INFORMATION:

| NAME             | CITY   | STATE | ZIP CODE | COUNTRY |
|------------------|--------|-------|----------|---------|
| Ranney; David F. | Dallas | TX    | 75234    |         |

US-CL-CURRENT: 424/9.322; 424/617, 424/9.35, 436/173, 436/806, 514/56, 514/836, 600/420

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | KMIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 7. Document ID: CA 2342007 A1, US 20030009297 A1

L47: Entry 7 of 7

File: DWPI

Sep 26, 2002

DERWENT-ACC-NO: 2003-329971

DERWENT-WEEK: 200331

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TITLE: Oil content determination apparatus has low field nuclear magnetic resonance relaxometer having magnet, mechanism for determining total amplitude of spectrum, and mechanism for converting amplitude value to weight value

|      |       |          |       |        |                |      |           |  |  |        |     |        |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|

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| Term  | Documents |
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| EMULS\$9  | 0         |
| EMULS   | 2312      |
| EMULSA  | 6         |
| EMULSAATUEL   | 1         |
| EMULSABILITY  | 3         |
| EMULSABLE   | 1         |
| EMULSAFYING   | 1         |
| EMULSAGEN   | 1         |
| EMULSAID  | 2         |
| EMULSAME  | 5         |
| (L46 AND<br>(EMULS\$9)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 7         |

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Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 20030094946 A1

Using default format because multiple data bases are involved.

L48: Entry 1 of 8

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030094946

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030094946 A1

TITLE: Method and system for using conventional core data to calibrate bound water volumes derived from NMR logs

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

| NAME               | CITY          | STATE | COUNTRY | RULE-47 |
|--------------------|---------------|-------|---------|---------|
| Galford, James E.  | Missouri City | TX    | US      |         |
| Marshall, David M. | Sugar Land    | TX    | US      |         |

US-CL-CURRENT: 324/303

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|

☐ 2. Document ID: US 20030009297 A1

L48: Entry 2 of 8

File: PGPB

Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030009297

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030009297 A1

TITLE: Determination of oil and water compositions of oil/water emulsions using low field NMR Relaxometry

PUBLICATION-DATE: January 9, 2003

INVENTOR-INFORMATION:

| NAME                  | CITY    | STATE | COUNTRY | RULE-47 |
|-----------------------|---------|-------|---------|---------|
| Mirotnich, Konstantin | Calgary |       | CA      |         |
| Allsopp, Kevin        | Calgary |       | CA      |         |
| Kantzas, Apostolos    | Calgary |       | CA      |         |

Marentette, Daniel

Calgary

CA

US-CL-CURRENT: 702/25

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|---------|

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☐ 3. Document ID: US 20020140425 A1

L48: Entry 3 of 8

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020140425

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020140425 A1

TITLE: Magnetic resonance fluid analysis apparatus and method

PUBLICATION-DATE: October 3, 2002

## INVENTOR-INFORMATION:

| NAME                | CITY         | STATE | COUNTRY | RULE-47 |
|---------------------|--------------|-------|---------|---------|
| Prammer, Manfred G. | Downington   | PA    | US      |         |
| Bouton, John C.     | Doylestown   | PA    | US      |         |
| Masak, Peter        | West Chester | PA    | US      |         |

US-CL-CURRENT: 324/303; 324/306

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|---------|

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☐ 4. Document ID: US 6646437 B1

L48: Entry 4 of 8

File: USPT

Nov 11, 2003

US-PAT-NO: 6646437

DOCUMENT-IDENTIFIER: US 6646437 B1

TITLE: System and method for clay typing using NMR-based porosity modeling

DATE-ISSUED: November 11, 2003

## INVENTOR-INFORMATION:

| NAME                   | CITY         | STATE | ZIP CODE | COUNTRY |
|------------------------|--------------|-------|----------|---------|
| Chitale; Dattatraya V. | Houston      | TX    |          |         |
| Coates; George R.      | Three Rivers | CA    |          |         |
| Day; Peter Ian         | Houston      | TX    |          |         |
| Sigal; Richard F.      | Spring       | TX    |          |         |

US-CL-CURRENT: 324/303; 702/8

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | KMC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|---------|

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☐ 5. Document ID: US 6107796 A

L48: Entry 5 of 8

File: USPT

Aug 22, 2000

US-PAT-NO: 6107796

DOCUMENT-IDENTIFIER: US 6107796 A

TITLE: Method and apparatus for differentiating oil based mud filtrate from connate oil

DATE-ISSUED: August 22, 2000

## INVENTOR-INFORMATION:

| NAME                | CITY        | STATE | ZIP CODE | COUNTRY |
|---------------------|-------------|-------|----------|---------|
| Prammer; Manfred G. | Downingtown | PA    |          |         |

US-CL-CURRENT: 324/303

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | NUMC | Draw Dg |
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☐ 6. Document ID: US 5260050 A

L48: Entry 6 of 8

File: USPT

Nov 9, 1993

US-PAT-NO: 5260050

DOCUMENT-IDENTIFIER: US 5260050 A

TITLE: Methods and compositions for magnetic resonance imaging comprising superparamagnetic ferromagnetically coupled chromium complexes

DATE-ISSUED: November 9, 1993

## INVENTOR-INFORMATION:

| NAME             | CITY   | STATE | ZIP CODE | COUNTRY |
|------------------|--------|-------|----------|---------|
| Ranney; David F. | Dallas | TX    | 75234    |         |

US-CL-CURRENT: 424/9.351, 424/617, 424/9.35, 436/173, 436/806, 536/102, 536/112, 536/122, 556/61, 600/420

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | NUMC | Draw Dg |
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☐ 7. Document ID: US 5213788 A

L48: Entry 7 of 8

File: USPT

May 25, 1993

US-PAT-NO: 5213788

DOCUMENT-IDENTIFIER: US 5213788 A

**\*\* See image for Certificate of Correction \*\***



TITLE: Physically and chemically stabilized polyatomic clusters for magnetic resonance image and spectral enhancement

DATE-ISSUED: May 25, 1993

INVENTOR-INFORMATION:

| NAME             | CITY   | STATE | ZIP CODE | COUNTRY |
|------------------|--------|-------|----------|---------|
| Ranney; David F. | Dallas | TX    | 75234    |         |

US-CL-CURRENT: 424/9.322; 424/617, 424/9.35, 436/173, 436/806, 514/56, 514/836, 600/420

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | NUM | Draw D |
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☐ 8. Document ID: CA 2342007 A1, US 20030009297 A1

L48: Entry 8 of 8

File: DWPI

Sep 26, 2002

DERWENT-ACC-NO: 2003-329971

DERWENT-WEEK: 200331

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TITLE: Oil content determination apparatus has low field nuclear magnetic resonance relaxometer having magnet, mechanism for determining total amplitude of spectrum, and mechanism for converting amplitude value to weight value

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | NUM | Draw D |
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| TRANSVERSE   | 1181234   |
| TRANSVERSES  | 3419      |
| LONGITUDINAL   | 1857394   |
| LONGITUDINALS  | 1349      |
| SPIN-LATTICE   | 1123      |
| SPIN-LATTICES  | 0         |
| SPIN-SPIN  | 1305      |
| SPIN-SPINS   | 0         |
| "SPIN SPIN"  | 0         |
| "SPIN LATTICE"   | 0         |
| (L46 AND ((TRANSVERSE OR LONGITUDINAL OR "SPIN-LATTICE" OR "SPIN-SPIN" OR "SPIN SPIN" OR "SPIN LATTICE" OR "T2" OR "T.SUB.2" OR "T.SUB.1" OR "T1" OR RELAX\$8) WITH (CUTOFF OR CUT-OFF OR "CUT OFF" OR THRESHOLD\$4))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 8         |

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☐ 1. Document ID: US 20030094946 A1

Using default format because multiple data bases are involved.

L49: Entry 1 of 5

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030094946  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030094946 A1

TITLE: Method and system for using conventional core data to calibrate bound water  
volumes derived from NMR logs

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

| NAME                | CITY          | STATE | COUNTRY | RULE-47 |
|---------------------|---------------|-------|---------|---------|
| Galford, James E.   | Missouri City | TX    | US      |         |
| Marschall, David M. | Sugar Land    | TX    | US      |         |

US-CL-CURRENT: 324/303

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw D |
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|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|

☐ 2. Document ID: US 20030009297 A1

L49: Entry 2 of 5

File: PGPB

Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030009297  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030009297 A1

TITLE: Determination of oil and water compositions of oil/water emulsions using low  
field NMR Relaxometry

PUBLICATION-DATE: January 9, 2003

INVENTOR-INFORMATION:

| NAME                   | CITY    | STATE | COUNTRY | RULE-47 |
|------------------------|---------|-------|---------|---------|
| Mirotchnik, Konstantin | Calgary |       | CA      |         |
| Allsopp, Kevin         | Calgary |       | CA      |         |
| Kantzas, Apostolos     | Calgary |       | CA      |         |

Marentette, Daniel

Calgary

CA

US-CL-CURRENT: 702/25

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | NMC | Draw D |
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☐ 3. Document ID: US 5260050 A

L49: Entry 3 of 5

File: USPT

Nov 9, 1993

US-PAT-NO: 5260050

DOCUMENT-IDENTIFIER: US 5260050 A

TITLE: Methods and compositions for magnetic resonance imaging comprising superparamagnetic ferromagnetically coupled chromium complexes

DATE-ISSUED: November 9, 1993

## INVENTOR-INFORMATION:

| NAME             | CITY   | STATE | ZIP CODE | COUNTRY |
|------------------|--------|-------|----------|---------|
| Ranney; David F. | Dallas | TX    | 75234    |         |

US-CL-CURRENT: 424/9.351; 424/617, 424/9.35, 436/173, 436/806, 536/102, 536/112, 536/122, 556/61, 600/420

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | NMC | Draw D |
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☐ 4. Document ID: US 5213788 A

L49: Entry 4 of 5

File: USPT

May 25, 1993

US-PAT-NO: 5213788

DOCUMENT-IDENTIFIER: US 5213788 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Physically and chemically stabilized polyatomic clusters for magnetic resonance image and spectral enhancement

DATE-ISSUED: May 25, 1993

## INVENTOR-INFORMATION:

| NAME             | CITY   | STATE | ZIP CODE | COUNTRY |
|------------------|--------|-------|----------|---------|
| Ranney; David F. | Dallas | TX    | 75234    |         |

US-CL-CURRENT: 424/9.322; 424/617, 424/9.35, 436/173, 436/806, 514/56, 514/836, 600/420

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | NMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
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5. Document ID: CA 2342007 A1, US 20030009297 A1

L49: Entry 5 of 5

File: DWPI

Sep 26, 2002

DERWENT-ACC-NO: 2003-329971

DERWENT-WEEK: 200331

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TITLE: Oil content determination apparatus has low field nuclear magnetic resonance  
relaxometer having magnet, mechanism for determining total amplitude of spectrum,  
and mechanism for converting amplitude value to weight value

| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | NUMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
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